SEQUENCE LISTING

<110> Taremi, S S
       Xie, Gaolian
       Hesson, Thomas E
       Duca, Jose S
       Strickland, Corey
       Windsor, William
       Madison, Vincent
       Zhang, Rumin
       Reichert, Paul

<120> Soluble, Stable Form of Hdm2, Crystalline Forms Thereof and Methods of
Use Thereof

<130> JB06017US01

<150> US 60/461,787
<151> 2003-04-10

<150> US 60/547,265
<151> 2004-02-24

<160> 18

<170> PatentIn version 3.1

<210> 1
<211> 327
<212> DNA
<213> Homo sapiens

<400> 1
tcacagattc cagcttcgga acaagagacc ctggttagac caaagccatt gcttttgaag   60

ttattaaagt ctgttggtgc acaaaaagac acttatacta tgaaagaggt tcttttttat   120

cttggccagt atattatgac taaacgatta tatgatgaga agcaacaaca tattgtatat   180

tgttcaaatg atcttctagg agatttgttt ggcgtgccaa gcttctctgt gaaagagcac   240

aggaaaatat ataccatgat ctacaggaac ttggtagtag tcaatcagca ggaatcatcg   300

gactcaggta catctgtgag tgagaac   327

<210> 2
<211> 109
<212> PRT
<213> Homo sapiens

<400> 2

Ser Gln Ile Pro Ala Ser Glu Gln Glu Thr Leu Val Arg Pro Lys Pro
1   5   10   15

Leu Leu Leu Lys Leu Leu Lys Ser Val Gly Ala Gln Lys Asp Thr Tyr
            20   25   30

Thr Met Lys Glu Val Leu Phe Tyr Leu Gly Gln Tyr Ile Met Thr Lys
        35   40   45

1

```
Arg Leu Tyr Asp Glu Lys Gln Gln His Ile Val Tyr Cys Ser Asn Asp
    50              55              60

Leu Leu Gly Asp Leu Phe Gly Val Pro Ser Phe Ser Val Lys Glu His
65              70              75                      80

Arg Lys Ile Tyr Thr Met Ile Tyr Arg Asn Leu Val Val Val Asn Gln
                85              90              95

Gln Glu Ser Ser Asp Ser Gly Thr Ser Val Ser Glu Asn
            100             105
```

<210> 3
<211> 327
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (31)..(33)
<223> a codon for an amino acid selected from the group consisting of
       L, K, R, Q, E, D, or S

<220>
<221> misc_feature
<222> (49)..(51)
<223> a codon for an amino acid selected from the group consisting of
       L, K, R, Q, E, D, or S

<220>
<221> misc_feature
<222> (115)..(117)
<223> a codon for an amino acid selected from the group consisting of
       F, H, Y, K, R, Q, E, D, or S

<220>
<221> misc_feature
<222> (178)..(180)
<223> a codon for an amino acid selected from the group consisting of
       H, Y, K,R,Q,E,D, or S

<220>
<221> misc_feature
<222> (193)..(195)
<223> a codon for an amino acid selected from the group consisting of
       L, K, R, Q, E, D, S, P, or A

<220>
<221> misc_feature
<222> (217)..(219)
<223> a codon for an amino acid selected from the group consisting of
       P, K, R, Q, E, D, or S

<220>
<221> misc_feature

2

```
<222>   (262)..(264)
<223>   a codon for an amino acid selected from the group consisting of
        Y, K, R, Q, E, D, S or N


<400>   3
tcacagattc cagcttcgga acaagagacc nnngttagac caaagccann nctttgaag        60

ttattaaagt ctgttggtgc acaaaaagac acttatacta tgaaagaggt tcttnnntat       120

cttggccagt atattatgac taaacgatta tatgatgaga agcaacaaca tattgtannn       180

tgttcaaatg atnnnctagg agatttgttt ggcgtgnnna gcttctctgt gaaagagcac       240

aggaaaatat ataccatgat cnnnaggaac ttggtagtag tcaatcagca ggaatcatcg       300

gactcaggta catctgtgag tgagaac                                           327


<210>   4
<211>   109
<212>   PRT
<213>   Homo sapiens

<220>
<221>   MISC_FEATURE
<222>   (11)..(11)
<223>   X can be L, K, R, Q, E, D, or S


<220>
<221>   MISC_FEATURE
<222>   (17)..(17)
<223>   X can be L, K, R, Q, E, D, or S


<220>
<221>   MISC_FEATURE
<222>   (39)..(39)
<223>   X can be F, H, Y, K, R, Q, E, D, or S


<220>
<221>   MISC_FEATURE
<222>   (60)..(60)
<223>   X can be H, Y, K, R, Q, E, D, or S


<220>
<221>   MISC_FEATURE
<222>   (65)..(65)
<223>   X can be L, K, R, Q, E, D, S, P, or A


<220>
<221>   MISC_FEATURE
<222>   (73)..(73)
<223>   X can be P, K, R, Q, E, D, or S


<220>
<221>   MISC_FEATURE
<222>   (88)..(88)
<223>   X can be Y, K, R, Q, E, D, S or N
```

<400> 4

Ser Gln Ile Pro Ala Ser Glu Gln Glu Thr Xaa Val Arg Pro Lys Pro
1   5   10   15

Xaa Leu Leu Lys Leu Leu Lys Ser Val Gly Ala Gln Lys Asp Thr Tyr
            20   25   30

Thr Met Lys Glu Val Leu Xaa Tyr Leu Gly Gln Tyr Ile Met Thr Lys
        35   40   45

Arg Leu Tyr Asp Glu Lys Gln Gln His Ile Val Xaa Cys Ser Asn Asp
    50   55   60

Xaa Leu Gly Asp Leu Phe Gly Val Xaa Ser Phe Ser Val Lys Glu His
65   70   75   80

Arg Lys Ile Tyr Thr Met Ile Xaa Arg Asn Leu Val Val Val Asn Gln
                85   90   95

Gln Glu Ser Ser Asp Ser Gly Thr Ser Val Ser Glu Asn
            100   105

<210> 5
<211> 327
<212> DNA
<213> Homo sapiens

<400> 5
tcacagattc cagcttcgga acaagagacc ctggttagac caaagccatt gcttttgaag   60

ttattaaagt ctgttggtgc acaaaaagac acttatacta tgaaagaggt tcttttttat   120

cttggccagt atattatgac taaacgatta tatgatgaga agcaacaaca tattgtacat   180

tgttcaaatg atcttctagg agatttgttt ggcgtgccaa gcttctctgt gaaagagcac   240

aggaaaatat ataccatgat ctacaggaac ttggtagtag tcaatcagca ggaatcatcg   300

gactcaggta catctgtgag tgagaac   327

<210> 6
<211> 109
<212> PRT
<213> Homo sapiens

<400> 6

Ser Gln Ile Pro Ala Ser Glu Gln Glu Thr Leu Val Arg Pro Lys Pro
1   5   10   15

Leu Leu Leu Lys Leu Leu Lys Ser Val Gly Ala Gln Lys Asp Thr Tyr
            20   25   30

4

```
Thr Met Lys Glu Val Leu Phe Tyr Leu Gly Gln Tyr Ile Met Thr Lys
        35                  40                  45

Arg Leu Tyr Asp Glu Lys Gln Gln His Ile Val His Cys Ser Asn Asp
    50                  55                  60

Leu Leu Gly Asp Leu Phe Gly Val Pro Ser Phe Ser Val Lys Glu His
65                  70                  75                  80

Arg Lys Ile Tyr Thr Met Ile Tyr Arg Asn Leu Val Val Val Asn Gln
                85                  90                  95

Gln Glu Ser Ser Asp Ser Gly Thr Ser Val Ser Glu Asn
            100                 105
```

```
<210>  7
<211>  327
<212>  DNA
<213>  Homo sapiens

<400>  7
tcacagattc cagcttcgga acaagagacc ctggttagac caaagccatt gcttttgaag      60

ttattaaagt ctgttggtgc acaaaaagac acttatacta tgaaagaggt tctttattat     120

cttggccagt atattatgac taaacgatta tatgatgaga agcaacaaca tattgtatat     180

tgttcaaatg atcttctagg agatttgttt ggcgtgccaa gcttctctgt gaaagagcac     240

aggaaaatat ataccatgat ctacaggaac ttggtagtag tcaatcagca ggaatcatcg     300

gactcaggta catctgtgag tgagaac                                         327
```

```
<210>  8
<211>  109
<212>  PRT
<213>  Homo sapiens

<400>  8
```

```
Ser Gln Ile Pro Ala Ser Glu Gln Glu Thr Leu Val Arg Pro Lys Pro
1                   5                   10                  15

Leu Leu Leu Lys Leu Leu Lys Ser Val Gly Ala Gln Lys Asp Thr Tyr
            20                  25                  30

Thr Met Lys Glu Val Leu Tyr Tyr Leu Gly Gln Tyr Ile Met Thr Lys
        35                  40                  45

Arg Leu Tyr Asp Glu Lys Gln Gln His Ile Val Tyr Cys Ser Asn Asp
    50                  55                  60

Leu Leu Gly Asp Leu Phe Gly Val Pro Ser Phe Ser Val Lys Glu His
65                  70                  75                  80
```

5

Arg Lys Ile Tyr Thr Met Ile Tyr Arg Asn Leu Val Val Val Asn Gln
                85   90   95

Gln Glu Ser Ser Asp Ser Gly Thr Ser Val Ser Glu Asn
            100   105

<210> 9
<211> 327
<212> DNA
<213> Homo sapiens

<400> 9
tcacagattc cagcttcgga acaagagacc ctggttagac caaagccatt gcttttgaag   60

ttattaaagt ctgttggtgc acaaaaagac acttatacta tgaaagaggt tctttattat   120

cttggccagt atattatgac taaacgatta tatgatgaga agcaacaaca tattgtacat   180

tgttcaaatg atcttctagg agatttgttt ggcgtgccaa gcttctctgt gaaagagcac   240

aggaaaatat ataccatgat ctacaggaac ttggtagtag tcaatcagca ggaatcatcg   300

gactcaggta catctgtgag tgagaac   327

<210> 10
<211> 109
<212> PRT
<213> Homo sapiens

<400> 10

Ser Gln Ile Pro Ala Ser Glu Gln Glu Thr Leu Val Arg Pro Lys Pro
1   5   10   15

Leu Leu Leu Lys Leu Leu Lys Ser Val Gly Ala Gln Lys Asp Thr Tyr
            20   25   30

Thr Met Lys Glu Val Leu Tyr Tyr Leu Gly Gln Tyr Ile Met Thr Lys
            35   40   45

Arg Leu Tyr Asp Glu Lys Gln Gln His Ile Val His Cys Ser Asn Asp
    50   55   60

Leu Leu Gly Asp Leu Phe Gly Val Pro Ser Phe Ser Val Lys Glu His
65   70   75   80

Arg Lys Ile Tyr Thr Met Ile Tyr Arg Asn Leu Val Val Val Asn Gln
                85   90   95

Gln Glu Ser Ser Asp Ser Gly Thr Ser Val Ser Glu Asn
            100   105

<210> 11
<211> 327

6

<212> DNA
<213> Homo sapiens

<400> 11
tcacagattc cagcttcgga acaagagacc aaggttagac caaagccaaa gcttttgaag   60

ttattaaagt ctgttggtgc acaaaaagac acttatacta tgaaagaggt tcttcattat   120

cttggccagt atattatgac taaacgatta tatgatgaga agcaacaaca tattgtaaag   180

tgttcaaatg ataaactagg agatttgttt ggcgtgaaaa gcttctctgt gaaagagcac   240

aggaaaatat ataccatgat ctacaggaac ttggtagtag tcaatcagca ggaatcatcg   300

gactcaggta catctgtgag tgagaac   327

<210> 12
<211> 109
<212> PRT
<213> Homo sapiens

<400> 12

Ser Gln Ile Pro Ala Ser Glu Gln Glu Thr Lys Val Arg Pro Lys Pro
1   5   10   15

Lys Leu Leu Lys Leu Leu Lys Ser Val Gly Ala Gln Lys Asp Thr Tyr
            20   25   30

Thr Met Lys Glu Val Leu His Tyr Leu Gly Gln Tyr Ile Met Thr Lys
            35   40   45

Arg Leu Tyr Asp Glu Lys Gln Gln His Ile Val Lys Cys Ser Asn Asp
    50   55   60

Lys Leu Gly Asp Leu Phe Gly Val Lys Ser Phe Ser Val Lys Glu His
65   70   75   80

Arg Lys Ile Tyr Thr Met Ile Tyr Arg Asn Leu Val Val Val Asn Gln
                85   90   95

Gln Glu Ser Ser Asp Ser Gly Thr Ser Val Ser Glu Asn
            100   105

<210> 13
<211> 43
<212> DNA
<213> artificial sequence

<220>
<223> primer

<400> 13
ctatgaaaga ggttctttat tatcttggcc agtatattat gac   43

<210> 14

7

```
<211>  43
<212>  DNA
<213>  artificial sequence

<220>
<223>  primer

<400>  14
gtcataatat actggccaag ataataaaga acctctttca tag                    43


<210>  15
<211>  44
<212>  DNA
<213>  artificial sequence

<220>
<223>  primer

<400>  15
gagaagcaac aacatattgt acattgttca aatgatcttc tagg                   44


<210>  16
<211>  44
<212>  DNA
<213>  artificial sequence

<220>
<223>  primer

<400>  16
cctagaagat catttgaaca atgtacaata tgttgttgct tctc                   44


<210>  17
<211>  29
<212>  DNA
<213>  artificial sequence

<220>
<223>  primer

<400>  17
caggaacttg gtagtagtca atcagcagg                                    29


<210>  18
<211>  30
<212>  DNA
<213>  artificial sequence

<220>
<223>  primer

<400>  18
gactactacc aagttcctgg agatcatggt                                   30
```